

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/037986 A2

(51) International Patent Classification⁷:

C12N

Linsenbergstrasse 12, 72074 Tuebingen (DE). ODEN-THAL, Joerg, Heinrich [DE/DE]; Otto-Erbe-Weg 18, 72070 Tuebingen (DE). SCHEEL, Jochen, Konrad [DE/DE]; Eduard-Spranger-Strasse 72, 72076 Tuebingen (DE). WILL, Torsten, Tilmann [DE/DE]; Eichenweg 2, 72076 Tuebingen (DE). JIN, Yisheng [CN/US]; 192 36th Avenue, Apt.B, San Mateo, CA 94403 (US).

(21) International Application Number:

PCT/US2003/033489

(22) International Filing Date: 22 October 2003 (22.10.2003)

(25) Filing Language:

English

(74) Agents: SHAYESTEH, Laleh et al.; Exelixis, Inc., P. O. Box 511, 170 Harbor Way, South San Francisco, CA 94083-0511 (US).

(26) Publication Language:

English

(30) Priority Data:

60/420,554 23 October 2002 (23.10.2002) US

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): EX-ELIXIS, INC. [US/US]; P.O. Box 511, 170 Harbor Way, South San Francisco, CA 94083-0511 (US).

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/037986 A2

(54) Title: MAP2K6 AS MODIFIER OF BRANCHING MORPHOGENESIS AND METHODS OF USE

(57) Abstract: Human MAP2K6 genes are identified as modulators of branching morphogenesis, and thus are therapeutic targets for disorders associated with defective branching morphogenesis function. Methods for identifying modulators of branching morphogenesis, comprising screening for agents that modulate the activity of MAP2K6 are provided.